

# **TRAFFIC SIGNAL SANTA ROSA AVENUE AND SEBASTOPOL ROAD PROJECT**

For the Air Quality Conformity Task Force

Prepared by: Rob Sprinkle, Supervising Engineer

# Project Description

---

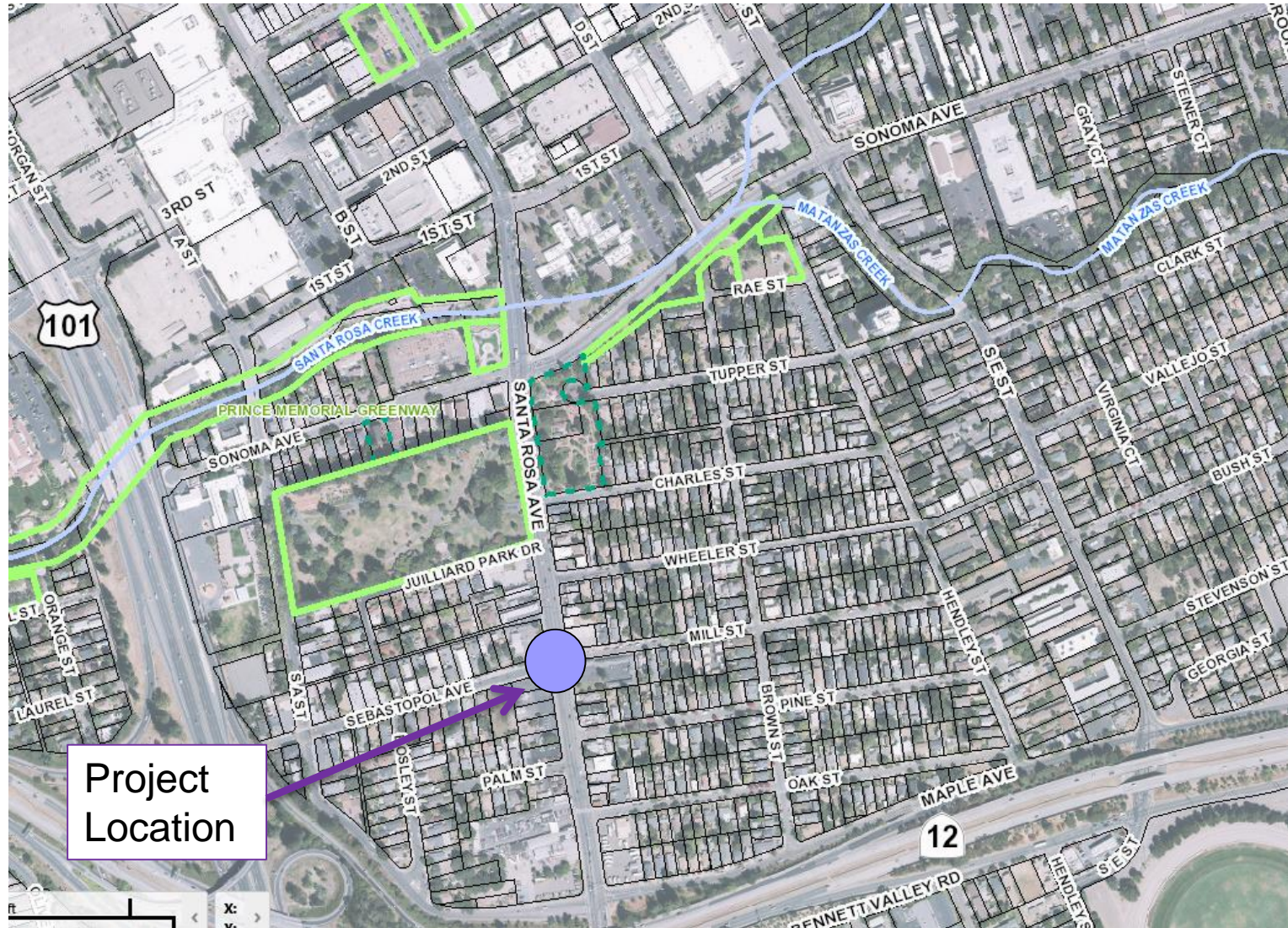
- Construct a traffic signal at the intersection of Santa Rosa Avenue and Sebastopol Road
- Install drainage features and bulbouts to enhance pedestrian facility
- Upgrade pedestrian ramps to current accessible standards and audible pedestrian signals
- Provide bicycle detection at signal

# PURPOSE & NEED

---

- Improve pedestrian accessibility by providing pedestrians with signal, bulbouts, and audible signals to aid in street crossing. The project will provide accessible crossing for school pedestrians as well as park and business patrons.

# OVERVIEW MAP





# TRAFFIC VOLUMES

- AVERAGE DAILY TRIPS (ADT)

<b>Santa Rosa Ave</b>	<b>EXISTING (2012) No-Build</b>	<b>EXISTING (2012) Build</b>	<b>Projected (2040) No-Build</b>	<b>Projected (2040) Build</b>
NORTH LEG (SOUTHBOUND)	10,730	10,730	16,630	16,630
SOUTH LEG (NORTHBOUND)	10,810	10,810	17,780	17,780

## LEVEL OF SERVICE (LOS)

---

- Existing intersection operates at an LOS A with 2009 classification count indicating 8% heavy vehicle use.
- A projected LOS C is estimated in 2040 with 8% heavy vehicle use at this intersection.
- This is not a traffic generating project and the percentage of heavy vehicle use is not projected to increase.

# LEVEL OF SERVICE

INTERSECTION	2012 No-Build		2012 Build		2040 No-Build		2040 Build	
	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
Santa Rosa Avenue at Sebastopol Road	0.5	A	1.3	A	75.0	E	24.4	C

# AIR QUALITY

---

- This project links a residential district to a business district and promotes walking by installing a traffic signal
- The warrant for this traffic signal was related to pedestrian activity
- Delay increase of 0.5 seconds to 1.3 seconds with the installation of this signal is insignificant to air quality or operations